

U.S. Serial No. 09/462,846

APPENDIX II

CLEAN VERSION OF THE ENTIRE SET OF PENDING CLAIMS AS AMENDED IN THIS COMMUNICATION

The following is a list of the Claims as they would appear following entry of this amendment.

1. (Twice Amended) A *Bacillus subtilis* having a mutation or deletion of part or all of the gene encoding cysteine protease-1 CP1, wherein said gene encodes the amino acid sequence set forth in SEQ ID NO:2, and said mutation or deletion results in the inactivation of the CP1 proteolytic activity.

6. (Amended) The microorganism of Claim 1, wherein said microorganism is capable of expressing a heterologous protein.

7. (Amended) The microorganism of Claim 6, wherein said heterologous protein is selected from the group consisting of hormones, enzymes, growth factors, and cytokines.

8. The microorganism of Claim 7 wherein said heterologous protein is an enzyme.

9. (Amended) The microorganism of Claim 8 wherein said enzyme is selected from the group consisting of proteases, carbohydrases, lipases, isomerases, racemases, epimerases, tautomerases, mutases transferases, kinases and phosphatases.

13. (Thrice Amended) A method for the production of a heterologous protein in a transformed *Bacillus* host cell comprising the steps of:

- (e) obtaining a *Bacillus* host cell comprising a nucleic acid encoding said heterologous protein wherein said host cell contains a mutation or deletion in at least one of the genes encoding *B. subtilis* cysteine protease 1, wherein said at least one of the genes encoding cysteine protease 1 encodes the amino acid sequence set forth in SEQ ID NO:2; and

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(f) growing said *Bacillus* host cell under conditions suitable for the expression of said heterologous protein

14. (Twice Amended) The method of Claim 13 wherein said *Bacillus* host cell is selected from the group consisting of *Bacillus subtilis*, *B. licheniformis*, *B. lentus*, *B. brevis*, *B. stearothermophilus*, *B. alkalophilus*, *B. amyloliquefaciens*, *B. coagulans*, *B. circulans*, *B. lautus*, and *B. thuringiensis*.

15. (Amended) The method of Claim 13 wherein said *Bacillus* host cell further comprises a mutation or deletion in at least one of the genes encoding at least one protease selected from the group consisting of apr protease, npr protease, epr protease, wpr protease and mpr protease.

20. (Amended) The method of Claim 13, wherein said at least one of the genes encoding cysteine protease 1 comprises the nucleic acid sequence set forth in SEQ ID NO:1.

21. The method of Claim 20, further comprising a mutation or deletion in at least one of the genes encoding at least one protease selected from the group consisting of apr protease, npr protease, epr protease, wpr protease and mpr protease.

22. A *Bacillus subtilis* cysteine protease-1 encoded by a nucleic acid sequence comprising SEQ ID NO:1.

23. A *Bacillus subtilis* cysteine protease-1 set forth in an amino acid sequence comprising SEQ ID NO:2.